

Claims

Annex to the international preliminary examination report

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Sub B1
1. Medical membrane (1-6) for arranging in a dentine cavity of a tooth for capping of a pulp exposure wherein said medical membrane comprises at least one roughened surface which has a porous and/or reticular structure.

2. Medical membrane (1-6) of claim 1, wherein said membrane is essentially impermeable to a sealant or to a cement.

3. Medical membrane (1-6) of claim 1, wherein the percentage of the pores or of the mesh of the porous and/or reticular surface is higher than 20 %.

4. Medical membrane (1-6) of claim 1, wherein the average diameter of the pores and/or the width of mesh is between 0.5 μm and 200 μm .

5. Medical membrane (1-6) of claim 4, wherein said average diameter of the pores and/or the width of mesh is between 1 μm and 100 μm .

6. Medical membrane (1-6) of claim 1, wherein said membrane is self adhesive to the dentine or is adhesive to the dentine due to an adhesive coating.

7. Medical membrane (1-6) of claim 1, wherein said membrane has a surface of less than 100 mm^2 .

8. Medical membrane (1-6) of claim 7, wherein said membrane has a surface of less than 50 mm^2 .

9. Medical membrane (1-6) of claim 1, wherein said membrane has a thickness of less than 3 mm.

10. Medical membrane (1-6) of claim 9, wherein said membrane has a thickness of less than 0.5 mm.

11. Medical membrane of claim 1, wherein said membrane (1-6) has a round or oval shape.

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12. Medical membrane of claim 1, wherein said membrane (1-6) is bent convex or concave.

13. Medical membrane (1-6) of claim 1, wherein said membrane (1-6) comprises reinforcements
5 which make said membrane plastically deformable.

14. Medical membrane (1-6) of claim 1, wherein said membrane comprises a carrier foil which partially or fully covers and/or overlaps one side of said membrane.

10 15. Medical membrane (1-6) of claim 1, wherein said membrane (1-6) comprises an overlapping carrier foil (13-18) wherein said overlapping part of said carrier foil adheres to the dentine.

15 16. Medical membrane (1-6) of claim 1, wherein said membrane (1-6) comprises a carrier foil (13-18) which does not form any adhesive connection to a restorative material.

20 17. Medical membrane of claim 1, wherein said membrane (1-6) comprises a carrier foil (13-18) which does form an adhesive connection to a restorative material.

18. Medical membrane (1-6) of claim 1, wherein said membrane is made of a non-reabsorbable material, preferably polytetrafluoroethylene or titanium.

25 19. Medical membrane (1-6) of claim 1, wherein said membrane is made of a reabsorbable material.

20. Medical membrane (1-6) according to claim 19, wherein said membrane is made of collagen.

30 21. Medical membrane (1-6) of claim 1, wherein said membrane comprises an active compound or a growth factor, respectively, which have an bacteriostatic or bactericidal effect or which stimulate cell attachment, cell integration and tissue formation, respectively.

35 22. Medical membrane (1-6) of claim 1, wherein said membrane is impermeable to ions and to molecules.

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23. A set of medical membranes (1-6) of claim 1, wherein said set comprises membranes of different size and wherein the size of said membranes is smaller than 50 mm².

5 24. A method for the application of a medical membrane in dentistry, comprising the following steps:

a) positioning of a membrane on the area of a cavity where the pulp is exposed,

10 b) filling the cavity above said membrane with a restorative material.

25. Method of claim 24, wherein said membrane is in contact with the dentine surrounding the area of the exposed pulp.

15 26. A device for the application of a medical membrane (1-6) in a cavity of a tooth comprising a handle and a removable skeleton form.

27. The device of claim 26, wherein said removable skeleton form is suitable to remain in the cavity and usable to be embedded in a filling in the cavity.

20 28. Kit for the treatment of pulp exposures comprising at least a medical membrane (1-6) of claims 1-22 and a device for the application of a medical membrane in a cavity of claims 26 and 27.

25 29. Medical membrane (1-6) for arranging in a dental cavity of a tooth for capping of a pulp exposure wherein said medical membrane comprises at least one roughened surface which is suitable for the attachment of fibrin fibers and/or for the attachment of pulp cells.

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